

FIGURE 1

REPLACEMENT SHEET

| d | 7 | |
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INTRACELLULAR

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|---------|---------------|----------------|
| N NOW I | | |
| | | III NIMINI III |
| EGFR E | p60 ErbB1-S 且 | 110 ErbB1-S 巨 |

p60 ErbB1-S

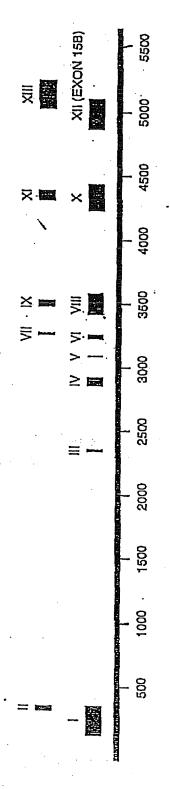
- encoded by 1.8 kb transcript
- mature product = 60 kDa Contains 381 amino acids
- Calculated mw = 45 kDa - minus signal peptide = 42 kDa

unique a.a. Leu and Ser

p110 ErbB1-S

- encoded by 3.0 kb transcript
- mature product = 110 kDa
- Contains 681 amino acids
 78 unique a.a
- Calculated mw = 77 kDa - minus signal peptide = 75 kDa

Alternative Exons Located in Human EGFR Intron 15



Alternative Exons Located In Human EGFR Intron 16

| Exon 15 | ភូទិ | £5 | GPDNCIQCAHYIDGPHCVKTCP AGVMGENNTLVWKYADAGHVCH |
|---------|--|-------|--|
| | TACGCAGACGCCCCCATGTCTCCACCTCTCCATCCAAACTGCACCCTACGG SEQ ID NO: | 88 | LCHPNCTYG SEQ ID NO: 21 |
| H | CAY CCATGCCAGTAGCAACTTGCTTGTGAGCAGCCTCAGTGCAGTGGAATG 139-364 | 2 74 | HASSNILVSRPQCSGNDSAMHK |
| | ACTOTOCOATGCACCGTGTCCCCGGGCCTCTGTGTTGTTGTTGCTGCTACAT | | TREMOVER CONTRACTOR |
| | CACAACAGGAGGGTAGGGGGACAAAAAGAGGGGGTCCTGGCCAGGGGCACACAGT | | TWGLAVLO* SEO ID NO: 22 |
| | CHCCAGGGCTTTTTGCGTTTCTCTCGGGTTTCTAAGGTTXXXATGGGTTAAGGTTAAGGTTAAGGGTTAAGGGTTAAGGGTTAAGGGTTAAGGGTTAAGGGTTAAGGGTTAAGGTTAAGGG | | |
| 1.1 | CAR ATTRICTARGET ARE CAREGO CONTINUES OF THE SECONDARY OF | 4 12 | ~ |
| 1.4.4. | 190 GABARCARATA SHO II) NO: 41 | 57 4 | KTII* SEO ID NO: 24 |
| IV | J 27 2 | 32 24 | CASVSLHQYLYISISVSVSICC WA* SEQ ID NO: 25 |
| | CONTRACTOR OF THE CONTRACTOR O | 92 1: | |
| > | managagamanananananananangagagammana SFO TD NO: 43 | 65 11 | MCDYIPDSEPF* SHO ID NO: 26. |
| 7 A.T. | | 69 0 | * |
| 777 | LAY ALAN MANAMANCACACACACACACACACACACACACACACACAC | 87 54 | IYDVHNIPEYIVSLISQMGCIA |
| 7777 | | • | FSISIVKETLTGVSLTTCEQQH |
| | AGATOUCHTOTAITCCCTTCCALLICIAITOTACACACACACACACACACACACACACACACACACACA | | gspdysissc* Seq ID NO: 27 |
| | TTTCTTRACTOREGISTOREGISTORGESCONTING | | |
| | GCIGCTICA OF THE TOTAL THE TOTAL THE CHARLES AND AND ADDROCATED 3474-3534 | 34 19 | WDVLPSPFLLLKKHLQGFL* |
| ХI | CAS ATGGGATGTATTGCTTCTCATTTCTATTGTTATAAAAAAAA | | SEO ID NO: 28 |
| | GGITTCITITA ON WING 4233-4437 | 37 67 | VTEGLISVSRSPSPSDALTSFS |
| × | でした。これでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、 | | PAAPSCHCPCPASLQGSTGLPF |
| | の行の見のかのかけではできないというないのである。 こうしんじゅうしゅう かんかんしゅう かんかい かんかい かんかん しんしん アンドラン・アン・アンドラン・アンドラン・アンドラン・アンドウン・アンドラン・アンドラン・アンドラン・アンドラン・アンドラン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン | | PTSLSQLLVSNPYGCPKAPSEP |
| | CICITICAAGGGICAACIGGGICIAACITICCCINAAGGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGG | | A* SEQ ID NO: 29 |
| X | CAS CCCCGTCCTGCCACTTCTCCAGCTTCTTCAAGGGTCAACTGGT 4307-4394 | 94 28 | everespeskvingstferk gypasc* SEO ID NO: 30 |
| | CTACCTTTCCCTACAAGTCTGTCACAGCTTTCTTGTTAG TA TOTAL | A7 7A | PONEST, KAMI, FCI, FKLSSCNOS |
| XII | | | NDGSVSHOSGSPAAQESCLGWI |
| (Exon | CATCOTOTANTONANGTANTONTONANGCOCACOTOTOCACONGCOCACOCACO | | PSLLPSEFOLGWGGCSHLHAWP |
| 150) | CHGCTCAGGAGTCALCALTAGGATCCCT.TCCCT.TCCCT.TCCCCT.TCCCCTCTCCAGGGGGGGGGG | | SASVIITASSCH* SHO TD NO: 31 |
| | | • | |
| | TCATCACGCCTCCTCCTCCTCCTCGA SILV ID INC. 40 | 37 | WAACT. COMMOUPPOCTAFICICOHH |
| XIII | | | GLILDISLMPSRVCSPRFSFLP |
| | GOATCHGRANDATCACACGCCTCCCTCCCACTCACCCCCATACCCTACATG | | PLHVGROVPKSILPISFLPLPL |
| | TOTIONATION CONTINUE | | PVPLTPTSS* SHO ID NO: 32 |
| | | | |
| Exon 16 | CAS ATGCACTGGGCCAGGTCTTGAAGGCTGTCCAACGAATGG SHO ID NO: 50 NA | 13 | CTGPGLEGCPTNG SHO ID NO. 33 |
| | | | |

FIGURE 4A

REPLACEMENT SHEET

ELLGHPAELPHSTLQSQGS* SEQ ID NO: 35 SYIVSHFPRSFYKMSVH* SHO ID NO: 36 NMNQTSRFLCHLW* SEQ ID NO: HTAQORQKGFLQHQLWFVCQSK ALRKALKSLIQTHQERVVLLS MASSQESWNYTPSTCLPFWMFP GIGLEMRERHIVEKRILERELE ERE SEQ ID NO: 37 PKIPSIATGMVGALLLLLLVVAL 20 5 17 47 tag AAGCTACATAGTGTCTCACTTTCCAAGATCATTCTACAAGATGTCAGTGC 1633-1687 ACTGA SEQ ID NO: 53 849-909 444-684 Ź CAST ACACACTGCCCAGCAAAGGCAAAAGGGCTTCCTTCAACATCAGCTCTGGC CAY TGAGCTGCTAGGACACCAGCAGAACTTCCCCACTCCACACTGCAATCTC CAGITITGCCAGAGAGAAAGCCCIGAGAAAACAAGGTIGAAAAAGICITIATICAAA CTCACCAGGAAAGAGTGGTGTTACTCTCGATGGCGTCTAGCCACGAATCATGGA АТТАТЛСЛСССАССАСТПТСССАГТТГССАТСТГССАААСЛГСААА CTINCAGGCCCCTCTGCCATCTCTGGTAA SEO ID NO: 51 SEO ID NO: 52 AGGGATCTTAG A431 neg Exon 17 XIX 홋

FIGURE 4B

Co-expression of p170 and p110 EGFR in Chinese Hamster Ovary Cells

Protein Expression

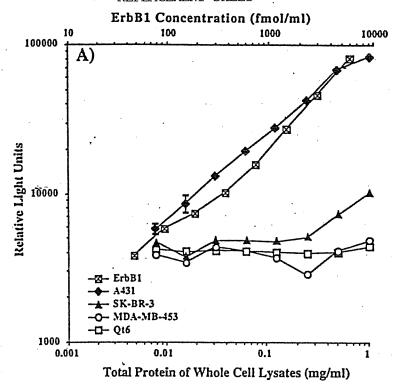
| Stable | p170 | vector | p170 |
|---------|--------|--------|------|
| ansient | vector | p110 | p110 |
| | | | |

FIGURE 5

| A) Full-length ErbB1 Receptor | | # of Unique Amino | Molecular | |
|--|-------------------|-------------------------|-----------|-----------------|
| Signal Peptide Transmembrane Domain | mRNA | Acids | Weight | Reference |
| iin ≧**[=:sIV: :: | 10.5 | | | , Ullrich |
| Subdomains I-IV B) Mutant Soluble ErbB1 Analog from Human A431 Cells | 5.8 kb | none | 170 kDa | et al., 1984 |
| | | | • | Ullrich |
| C) Soluble ErbB1 Analog from Human Placenta | 2.8 kb | 17 | 110 kDa | et al., 1984 |
| Unique Amino Acids | | | | Reiter |
| | 1.8 kb | · ci | 60 kDs | and Maihle, |
| D) Recombinant Soluble Human ErbB1 Analog | | | | 0001 |
| | not applicable | none | 100 кDа | |
| | | | | |

FIGURE 6

REPLACEMENT SHEET



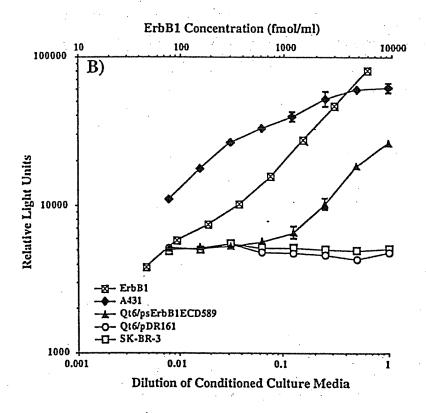


FIGURE 7

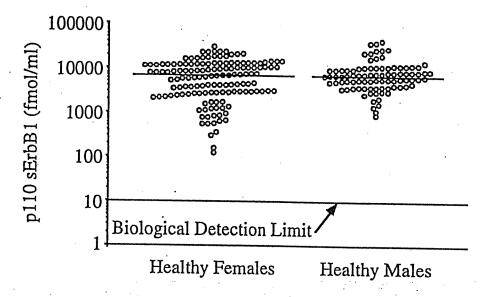
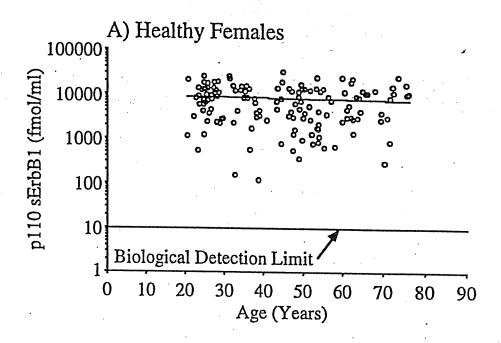


FIGURE 8



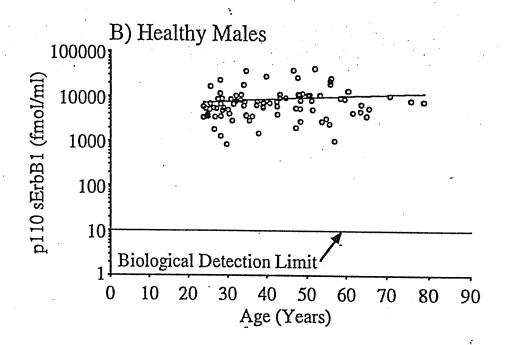


FIGURE 9

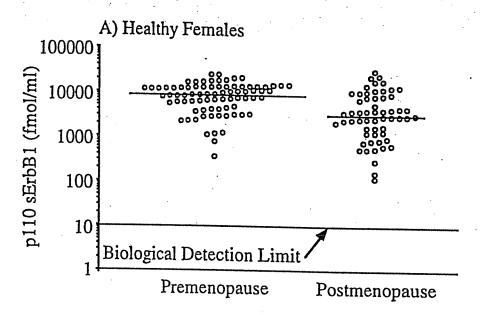


FIGURE 10

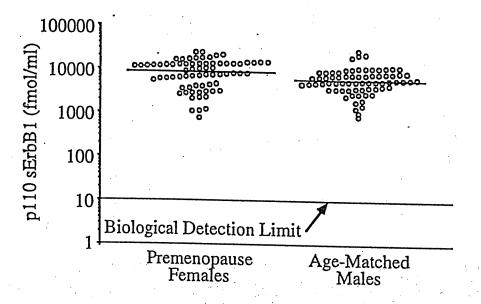
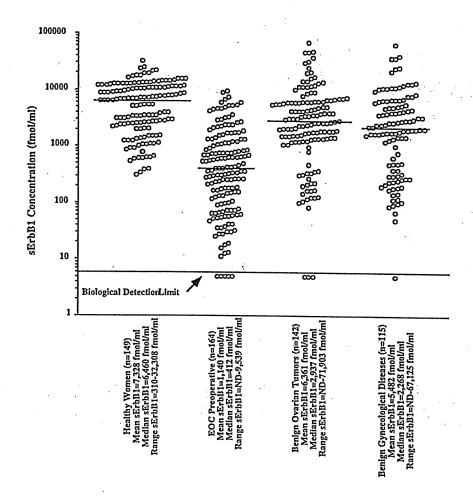


FIGURE 11



Serum sErbB1 levels in healthy women, patients with EOC, benign ovarian tumors, and other benign gynecological diseases as measured by ALISA and compared. Serum samples with sErbB1 levels below the inter-assay biological detection limit (horizontal line with arrow) of 5.89 fmol/ml were arbitrarily assigned values of 5.0 fmol/ml for graphing purposes. Each data point represents the median of the mean sErbB1 concentration for one serum sample tested in duplicate from a minimum of three separate assays. The median sErbB1 concentration for each group of patients is indicated by the horizontal line.

